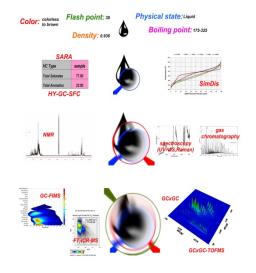
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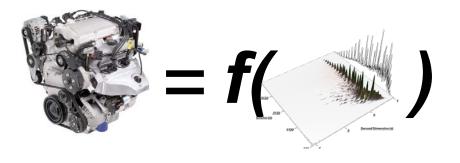
Application of advanced hydrocarbon characterization and its consequences on future fuel properties and advanced combustion research

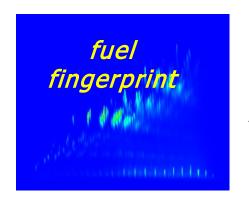


Rafal Gieleciak, Craig Fairbridge and Darcy Hager

Presented by: Rafal Gieleciak

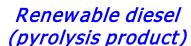


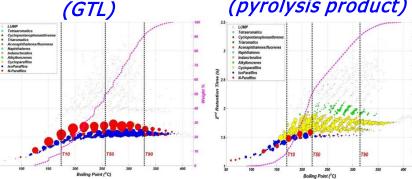




Fisher-Tropsch diesel







- Many research studies carried out around the world are focused on advanced engine combustion technologies such as HCCI or RCCI.
- Tomorrow's combustion technology may be to a large degree dependent on fuel physical properties. In turn, physical properties are dependent on chemical composition.
- Advanced analytical methods such as GCxGC are becoming both more powerful and easier to
 - GC x GC chromatograms are fingerprints of fuels.
 - How to get a deeper insight into fuels?
 - •How we can utilize the analytical information to prediction of bulk properties of the fuels?
- Can a small modification to fuel hydrocarbon fingerprint change future engine performance?

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